



DESCRIPTION

The **Kele Model OS-1** is a dependable, economical **oxygen sensor** designed to monitor oxygen levels in ambient air. It has a jumper-selectable analog output for interfacing with a BAS controller and an SPDT relay output to activate an alarm in the event of oxygen depletion due to a refrigerant leak. The units are powered by 24 VAC/VDC and are housed in a rugged polystyrene enclosure for dust and moisture protection.

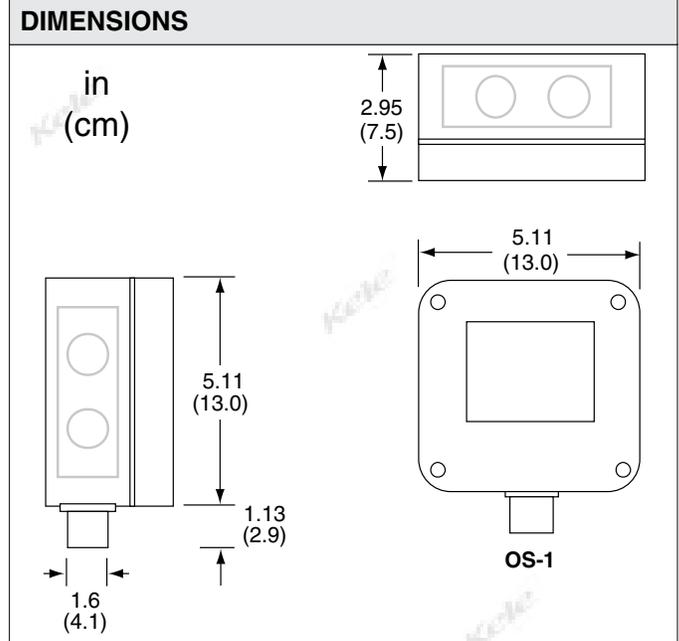
The **Model OS-1** is designed to be used as part of a control system that helps to prevent the formation of a hazardous environment when properly installed and maintained.



FEATURES

- 4-20 mA, 0-5 VDC, or 0-10 VDC output, jumper-selectable
- SPDT alarm relay
- 24VAC/VDC power
- 0% to 25% range
- Rugged polystyrene enclosure

SPECIFICATIONS	
Supply Voltage	24 VAC @ 6 VA or 24 VDC @ 250 mA
Accuracy	±1%
Signal Output	(jumper selectable) 4-20 mA (300Ω max) 0-5 VDC (20 kΩ min) 0-10 VDC (20 kΩ min)
Measurement Range	0% to 25% oxygen
Sensing Technology	Galvanic cell
Life Expectancy	Approximately five years @ 68°F (20°C) in ambient air
Response Time	Approximately 12 seconds
Relay Type	SPDT 24 VAC/VDC @ 0.5A, factory set @ 19.5%
Operating Temperature	40° to 104°F (5° to 40°C)
Operating Humidity	10% to 95% non-condensing
Weight	1.25 lb (0.57 kg)
Warranty	1 year



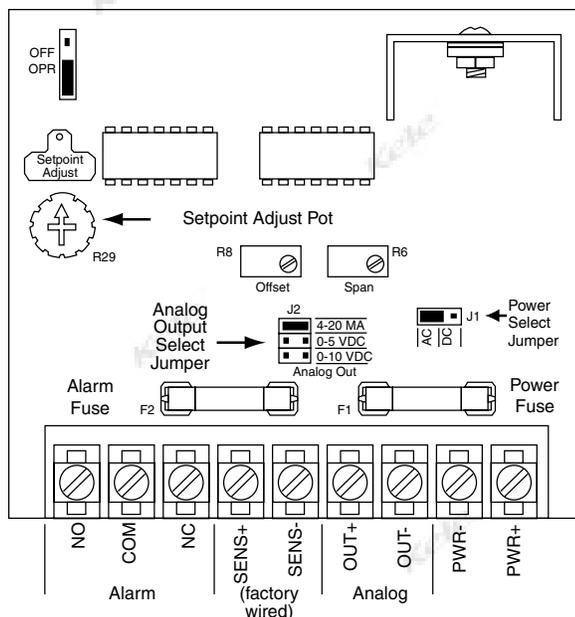


GAS & SPECIALTY SENSORS

OXYGEN SENSOR

OS-1

WIRING



Note:

AC power must be floating and may not be grounded. If AC power is grounded a separate transformer is required for each OS-1.

INSTALLATION

The **OS-1** is suitable for indoor use only. Mount the unit as close to the source of potential refrigerant leaks as possible. Some recommended considerations are as follows:

1. Mount the unit with the sensor pointing down.
2. Mount the unit in a location with low vibration. Strong vibration may cause a change in the condition of the internal membrane.
3. The sensor should be mounted 3' to 5' (0.9 to 1.5m) from the floor in equipment rooms or 1' (0.3m) above the floor in refrigeration pits.
4. The **OS-1** should cover about 1000-1500 square feet with adequate air movement.
5. Mount at least 5' (1.5m) from the exhaust fan.
6. Verify operation yearly.

Note: Make all connections in accordance with national and local codes. Not recommended for MRI rooms.

ORDERING INFORMATION

MODEL
OS-1

DESCRIPTION
Oxygen sensor, 0% to 25% range

GAS-O2-18
UCK-1

RELATED PRODUCTS
18% oxygen (O2) in nitrogen (N2), 17L
Universal calibration kit for non-corrosive gases
(N2, CO2, CH4, H2, O2, CO, and refrigerants)

691-K0A
DCP-1.5-W
DCPA-1.2

ACCESSORIES
Control transformer, 120:24 VAC, 40 VA, Class 2
Power supply, 24 VAC IN to 24 VDC OUT
Power supply, 120 VAC IN to 24 VAC/24 VDC OUT